

## **APPENDIX D**

### **List Of Insignificant Activities**

The List Of Insignificant Activities is a list of most common insignificant activities, which are typically associated with inconsequential environmental impacts. The List Of Insignificant Activities does not include every insignificant activity and is to be used as a guide only.

Any other activity that is not included in Appendix D (List Of Insignificant Activities) and that is not otherwise subject to an applicable requirement may be considered an insignificant activity, if approved by the Control Officer and the Administrator of the Environmental Protection Agency (EPA). Maricopa County reserves the right to request emissions calculations for insignificant activities, if such insignificant activities would make a source a major source.

A Non-Title V source is not required to list nor to describe insignificant activities in a permit application. If a Non-Title V source's emissions are approaching an applicable requirement, then such Non-Title V source may also be required to include, in a permit application, a description of its insignificant activities and emissions calculations for such insignificant activities.

A Title V source must, in a permit application, list and generally group its insignificant activities. If emissions estimates are needed for another purpose, such as determining the amount of permit fees, then such Title V source may also be required to include, in a permit application, emissions calculations for such insignificant activities.

#### **Non Quantifiable Insignificant Activities:**

##### **Roadways:**

1. Activities associated with the construction, repair or maintenance of roads or other paved or open areas, including operating of street sweepers, vacuum trucks, spray trucks and other vehicles related to the control of fugitive emissions of such roads or other areas.
2. Unpaved public and private roadways. Does not include haul roads located within stationary source site boundary that are regularly trafficked by heavy trucks, front loaders, and other similar industrial machinery.
3. Fugitive dust emissions from the operation of mobile equipment.

##### **Food Equipment:**

1. Equipment, excluding boilers, used in eating establishments or other retail establishments for the purpose of preparing food for human consumption. This includes all emissions associated with this activity, including food itself and microwave ovens.
2. Bakeries: Mixers and blenders used where the products are edible and intended for human consumption, and for ovens whose total production is less than 10,000 pounds per operating day.

##### **Water And Waste Water Treatment And Storage:**

1. Water treatment and storage for use as process water or for use in cooling systems, cooling towers, and scrubbers used to control air contaminants. Emissions from use of chemicals in water treatment also are considered insignificant activities.
2. Waste water neutralization treatment or tank storage for process waste water.
3. The collection, transmission, liquid treatment, and solids treatment processes at domestic wastewater and sewage treatment works, or treatment facilities, including septic tank systems, which treat only domestic type wastewater and sewage (specify size of facility in application).

4. Chemical storage associated with water and wastewater treatment where the water is treated for consumption and/or use within the facility.

### **Burning:**

1. Firefighting activities and training conducted in preparation for fighting fires.
2. Open burning activities (with a valid open burning permit).

### **Electronic Processes:**

1. Gas storage cabinets, including gas bottle valve line purges and change-outs. Gas manifold boxes. Piping systems for gases.
2. Ingot cutting and wafer grinding.
3. Carbon dioxide pellet blasting/grinding.
4. Tape laminators and tape delaminators.
5. Ultraviolet (UV)/ozone cleaning systems.
6. Ashers.
7. Acid/base bottle rinse.
8. Rinsing of acid wipes.
9. Mold presses.
10. Hard bake ovens/UV cure ovens.
11. Steppers/aligners.
12. Sputterers/evaporators for physical vapor deposition.
13. Dry boxes, DI washes, and microwave ovens.
14. Toxic gas monitoring systems.
15. Deaerator ovens, dry ovens for water removal, demount ovens, and test ovens.
16. Wire bonders.
17. Laser scribe, laser marker, and laser trimmer.
18. Mount operations.
19. Die attach and encapsulant process equipment.
20. Encapsulant, die attach, ink, and mold cure ovens.
21. Exhaust associated with micro-contamination control.
22. Crushing of reject semiconductor devices.

### **Miscellaneous Activities:**

1. Servicing and use of air conditioning and cooling equipment that are subject to applicable requirements under Title VI of the Act.
2. Brazing or welding equipment, which emit hazardous air pollutants (HAPs).
3. Hand soldering equipment which emit HAPs.
4. Woodworking equipment that has a total of 50 hp or less.
5. Non-hand held, stationary equipment used for buffing, carving, cutting, drilling, surface grinding, machining, planing, routing, sanding, sawing, shredding, or turning of ceramic artwork, precision parts, leather, metals, plastics, rubber, fiberboard, masonry, carbon, graphite, glass, or silicon wafers.
6. Transferring chemicals from one container to another, provided chemical repackaging is not the source's primary business activity and provided vapor pressure is less than 1.5 psia.
7. Packaging product for shipment, not including foam blowing agents.
8. Plastic pipe welding.
9. Destruction of used light bulbs at the site of generation.
10. Processing of near empty containers (usable product already removed) by rinsing, crushing, shredding, compacting, etc.
11. Cleaning of decommissioned equipment.
12. Power generation unit gas vents (sources must provide a description of these vents with their application). (A generation unit gas vent is a gas solenoid valve that vents trapped gas from a generation unit.)

13. Unheated storage tanks of any size containing exclusively aqueous acid or caustic solutions that have minimal fumes (typically less than 10% concentrations) which would not emit HAPs.

### **Quantifiable Insignificant Activities:**

#### **General Combustion Activities:**

1. All natural gas and/or liquefied petroleum gas-fired pieces of equipment over 300,000 BTU/hour, only if the input capacities added together are less than 2,000,000 BTU/hour, the emissions come from fuel burning, and the equipment is used solely for heating buildings for personal comfort or for producing hot water for personal use.
2. Any oil-fueled heating piece of equipment (except off-spec. oil) with a maximum rated input capacity or an aggregated input capacity of less than:
  - (a) 500,000 BTU/hour if only emissions came from fuel burning, or
  - (b) 1,000,000 BTU/hour if only emissions came from fuel burning and the equipment is used solely for heating buildings for personal comfort or for producing hot water for personal use.

#### **Surface Coating And Printing Equipment:**

1. The aggregate of all surface coating operations of a source in which no coated product is heat cured and a combined total of 1 gallon per day or less of all coating materials and solvents are used in processes at the source.
2. Use of hand-held aerosol cans in coating operations.
3. Any printing operation, which employs a combination of printing presses with a maximum of 500 square inches of impression area and a maximum of 2 printing surfaces per printing press.

#### **Solvent Cleaning Equipment:**

1. Unheated, non-conveyorized, cleaning or coating equipment that does not include control enclosures:
  - (a) With an open surface area of 1 square meter (10.8 square feet) less and an internal volume of 350 liters (92.5 gallons) or less, having an organic solvent loss of 3 gallons per day or less, or unless subject to a NESHAPs (1 gallon of it contains HAPs) (if it is a VOC organic solvent).
  - (b) Using only organic solvents with an initial boiling point of 302°F (150°C) or greater and having an organic solvent loss of 3 gallons per day or less, or
  - (c) Using materials with a VOC content of 2% (20 grams per liter) or less by volume.

#### **Internal Combustion (IC) Equipment:**

1. IC engine-driven compressors, IC engine-driven electrical generator sets, and IC engine-driven water pumps less than 500 horsepower (hp) used only for emergency replacement or standby service (including testing of same) not to exceed 500 operating hours per year.
2. Gas turbines with a maximum heat input at International Standards Organization (ISO) Standard Day Conditions of less than 3,000,000 BTU per hour fired exclusively with natural gas and/or liquefied petroleum gas.
3. Other portable IC engines that have an individual design capacity less than or equal to:
  - (a) 200 hp if fueled by diesel, or
  - (b) 500 hp if fueled by gasoline.

#### **Laboratories And Pilot Plants:**

1. Research and development activities and pilot scale activities at a source that emit less than 3 pounds per day of VOCs and PM<sub>10</sub>, and 5.5 pounds per day of any other regulated air pollutant.
2. Laboratory equipment used exclusively for physical, biological, or chemical analysis.
3. Experimental work at a source, which is less than 6 months in duration, with an increase of uncontrolled emissions of less than 3 pounds per day for total VOC or acid/base emissions.

4. Small pilot scale research and development projects. These are to be evaluated on a case-by-case basis considering size, nature and amount of emissions, and duration of project.

### **Storage And Distribution:**

1. Chemical or petroleum storage tanks or containers that hold 250 gallons or less and would have emissions of a regulated air pollutant.
2. Any emissions unit, operation, or activity that handles or stores a liquid with a vapor pressure less than 1.5 psia.
3. Any stationary gasoline dispensing operation receiving less than 60,000 gallons of gasoline annually which is not for resale, provided that each gasoline dispensing tank is equipped with a permanent submerged fill pipe.

### **Electronic Processes:**

1. Bubbler testers.
2. Equipment used for solder reflow, solder work stations, solder test hoods, wave solder equipment, solder pots and other miscellaneous solder equipment, if uncontrolled actual VOC emissions are less than 10 pounds/year from each piece of equipment.
3. Radaflow leak testers.
4. Vapor prime ovens, if uncontrolled actual VOC emissions are less than 10 pounds/year from each oven.
5. Photoglass rolling mill.

### **Miscellaneous Activities:**

1. Self-contained, enclosed blast and shot peen equipment where the total internal volume of the blast section is 50 cubic feet or less and where the control equipment vents exclusively such equipment.
2. Blast-cleaning equipment using a suspension of abrasive in water and any exhaust system or collector serving them exclusively.
3. Acetylene, butane, and propane torches.
4. Cooling towers that are 3,000 ton (9,000 gpm) and smaller.
5. Fugitive emissions from landfill operations that are not subject to any federal applicable air quality requirement.
6. Use of portable equipment (such as power generators, compressors, heaters, air conditioners, lighting units) in direct support of aircraft operations on or in the immediate vicinity of an airfield.
7. Batch mixers with rated capacity of 5 cubic feet or less.
8. Wet sand and gravel production facilities that obtain material from subterranean and subaqueous beds, whose production rate is 200 tons/hour or less, and whose permanent in-plant roads are paved and cleaned to control dust. This does not include activities in emissions units which are used to crush or grind any non-metallic minerals.
9. Each piece of equipment not included on this list of quantifiable insignificant activities that has uncontrolled actual emissions of less than 10 pounds per year of any regulated air pollutant, except federal HAPs, and, for federal HAPs, 1 pound per year or 0.1% of the de minimis level, whichever is less.
10. Any other activity that is not otherwise subject to an applicable requirement, as approved by the Control Officer and the Administrator of EPA, because of its emissions due to size or production rate.

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